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Scott M. Woodhouse Of Counsel Kenneth C. Bass III Evan R. Smith

\*Admitted only in Maryland
\*Admitted only in Virginia
•Practice Limited to
Federal Agencies

March 29, 2004

WRITER'S DIRECT NUMBER: (202) 772-8520 INTERNET ADDRESS: TWOOD@SKGF.COM

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Group Art Unit 2133

Re:

U.S. Utility Patent Application

Appl. No.: 10/646,717; Filed: August 25, 2003

For: Method and System for Programmable Field Statistic for Picture

Cyclic Redundancy Check (CRC)

Inventors:

Darren NEUMAN et al.

Our Ref:

1875.4460001

Sir:

Transmitted herewith for appropriate action are the following documents:

- 1. PTO Fee Transmittal Form (PTO/SB/17);
- 2. Request to Correct Inventorship in a Non-Provisional Patent Application Under 37 C.F.R. § 1.48(a);
- 3. Statement Under 37 C.F.R. § 1.48(a)(2) of a Person to be Added or Deleted as an Inventor;
- 4. Supplemental Declaration for Patent Application;
- 5. Consent of the Assignee Under 37 C.F.R. § 1.48(a)(5);
- 6. Statement Under 37 C.F.R. § 3.73(b); with a copy of the Supplemental Assignment attached;
- 7. One (1) return postcard; and
- 8. Credit Card Payment Form (PTO-2038) in the amount of \$130.00 to cover the processing fee as set forth under 37 C.F.R. § 1.17(i).

Sterne, Kessler, Goldstein & Fox P.L.C. : 1100 New York Avenue, NW : Washington, DC 20005 : 202.371.2600 f 202.371.2540 : www.skgf.com

Commissioner for Patents March 29, 2004 Page 2

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Theodore A. Wood

Attorney for Applicants

Registration No. 52,374

PEG/TAW:ddc Enclosures

PTO/SB/17 (10-03) Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Under the Paperwo

> 3. ADDITIONAL FEES Large Entity | Small Entity Fee

Fee

Fee Fee Code (\$)

### FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT 130.00

METHOD OF PAYMENT (check all that apply)

Check X Credit card Money Other\* None

\*\*Charge any deficiencies or credit any overpayments in
Deposit Account: the fees to Deposit Account.

| Complete if Known    |                 |  |
|----------------------|-----------------|--|
| Application Number   | 10/646,717      |  |
| Filing Date          | August 25, 2003 |  |
| First Named Inventor | Darren NEUMAN   |  |
| Examiner Name        | To Be Assigned  |  |
| Art Unit             | 2133            |  |
| Attorney Docket No.  | 1875.4460001    |  |

FEE CALCULATION (continued)

**Fee Description** 

| Account   Number   19-0-036   1051   130   2051   65   Surcharge - late filling fee or oath   1052   50   2052   25   25   25   25   25   | Deposit                                 |          | •       | •                        | )   c        | ode        | (\$)                   | Code     | (\$)      | ree                | Description       | 1                | 5 D-14   |
|---|---|----------|---------|--------------------------|--------------|------------|------------------------|----------|-----------|--------------------|-------------------|------------------|----------|
| Deposit   Account   Sterne Kessler, Goldstein & Fox P.L.L.C.   1052   50   2052   25   Sucharge - late provisional filing fee or cover sheet   1053   130   105  |   |          |         | 19-0036                  | i I          |            |                        |          |           | Surcharge - late   | e filina fee or e | oath             | Fee Paid |
| Name   Properties   The Director is authorized to: (check all that apply)   Credit any overpayments   1053 130   1053 1  | Deposit                                 | Sterne K | essler. | Goldstein & Fox P.L.L.C. | ۱ ۱ ،        |            |                        |          |           | Surcharge - late   | •                 |                  |          |
| Charge fee(s) indicated below   Credit any overpayments   1812 2.520  | Name                                    | L        |         |                          | , ,          | 053        | 130                    | 1053     | 130       |                    | ecification       |                  |          |
| Charge set(s) indicated below. except for the filing fee (b) the above-identified deposit account.   1804 920* 1804 920* Requesting publication of SIR prior to Examiner action   1805 1,840* Requesting publication of SIR after (Examiner action   1805 1,840* Requesting publication of SIR after (Examiner action   1805 1,840* Requesting publication of SIR after (Examiner action   1805 1,840* Requesting publication of SIR after (Examiner action   1805 1,840* Requesting publication of SIR after (Examiner action   1805 1,840* Requesting publication of SIR after (Examiner action   1805 1,840* Requesting publication of SIR after (Examiner action   1805 1,840* Requesting publication of SIR after (Examiner action   1805 1,840* Requesting publication of SIR after (Examiner action   1805 1,840* Requesting publication of SIR after (Examiner action   1805 1,840* Requesting publication of SIR after (Examiner action   1805 1,840* Requesting publication of SIR after (Examiner action   1805 1,840* Requesting publication of SIR after (Examiner action   1805 1,840* Requesting publication of SIR after (Examiner action   1805 1,840* Requesting publication of SIR after (Examiner action   1805 1,840* Requesting publication of SIR after (Examiner action   1805 1,840* Requesting publication of SIR after (Examiner action   1805 1,840* Requesting publication of SIR after (Examiner action   1805 1,840* Requesting publication of SIR after (Examiner action   1805 1,840* Requesting publication of SIR after (Examiner action   1805 1,840* Requesting publication of SIR after (Examiner action   1805 1,840* Requesting publication of SIR after (Examiner action   1805 1,840* SIR after (  |   |          | •       |                          | 14           |            |                        |          |           |                    |                   | te reexamination |          |
| Charge fee(s) indicated below, except for the filing fee (6 the above-identified deposit account.   |   | . ,      |         |                          | IIIS         |            | -                      |          |           | Requesting pub     | lication of SIF   |                  |          |
| 1. BASIC FILING FEE   1251 110   2251 55   Extension for reply within first month   1252 420 2252 210   Extension for reply within first month   1253 950 2253 475   Extension for reply within first month   1254 14.80 2254 740   Extension for reply within first month   1254 14.80 2254 740   Extension for reply within first month   1255 2.010   1255 2.01  |   |          |         | •                        | 1            | 805        | 1,840*                 | 1805     | 1,840*    | Requesting put     | olication of SI   | R after          |          |
| 1. BASIC FILING FEE   Large Entity   Small Entity   Fee   | to the above-los                        |          |         |                          | ┩ィ           | 251        | 110                    | 2251     | 55        |                    |                   | t month          |          |
| 1. BASIC FILING FEE   1275  |   |          |         | CULATION                 |              |            |                        |          |           |                    |                   |                  |          |
| Fee   |   |          |         |                          |              |            |                        |          |           |                    |                   |                  | 1        |
| Code (\$)   Code (\$)   Code (\$)   |   |          |         | Description Fee Pa       | است          |            |                        |          |           |                    |                   |                  |          |
| 1002 340 2002 170   |   |          |         |                          | '            |            | ,                      |          |           |                    |                   |                  |          |
| 1003 530   2003 265   Plant filing fee   1402 330   2402 165   Filing a brief in support of an appeal 1403 290 2403 145   Request for oral hearing 1451 1.510   Petition to institute a public use proceeding 1451 1.510   1451 1.510   Petition to revive - unavoidable 1452 110   2452 55   Petition to revive - unintentional 1451 1.501   1451 1.510   Petition to revive - unintentional 1451 1.501   1451 1.501   1451 1.510   Petition to revive - unintentional 1452 110   2452 55   Petition to revive - unintentional 1451 1.501   1451 1.501   1451 1.501   1451 1.501   Petition to revive - unintentional 1451 1.501   1451 1.501   1451 1.501   Petition to revive - unintentional 1452 110   2452 55   Petition to revive - unintentional 1451 1.501   1451 1.501   1451 1.501   1451 1.501   Petition to revive - unintentional 1452 110   2452 55   Petition to revive - unintentional 1451 1.501   1451 1.501   Petition to revive - unintentional 1451 1.501   1451 1.501   1451 1.501   Petition to revive - unintentional 1451 1.501   1451 1.501   1451 1.501   Petition to revive - unintentional 1451 1.501   1451 1.501   Petition to revive - unintentional 1451 1.501   1451 1.501   1451 1.501   Petition to revive - unintentional 1451 1.501   1451 1.501   1451 1.501   Petition to revive - unintentional 1451 1.501     | 1001 770                                | 2001 385 | U       | tility filing fee        | IJl¹         | 255        | 2,010                  | 2255     | 1,005     | Extension for re   | eply within fift  | h month          |          |
| 1403 290 2403 145 Request for oral hearing   1403 290 2403 145 Petition to revive - unintentional   1403 290 2403 2403 2403 2403 2403 2403 2403 2502 240 Design issue fee   1503 640 2503 320 Plant issue fee   1460 130 Petitions to the Commissioner   1807 50 1807 50 Processing fee under 37 CFR 1.17(q)   1807 50 1807 50 Processing fee under 37 CFR 1.17(q)   1807 50 1807 50 Processing fee under 37 CFR 1.17(q)   1807 50 1807 50 Processing fee under 37 CFR 1.17(q)   1807 50 1807 50 Processing fee under 37 CFR 1.17(q)   1807 50 1807 50 Processing fee under 37 CFR 1.17(q)   1807 50 1807 50 Processing fee under 37 CFR 1.17(q)   1807 50 1807 50 Processing fee under 37 CFR 1.17(q)   1807 50 1807 50 Processing fee under 37 CFR 1.17(q)   1807 50 1807 50 Processing fee under 37 CFR 1.17(q)   1807 50 1807 50 Processing fee under 37 CFR 1.17(q)   1807 50 1807 50 Processing fee under 37 CFR 1.17(q)   1807 50 1807 50 Processing fee under 37 CFR 1.17(q)   1807 50 1807 50 Processing fee under 37 CFR 1.17(q)   1807 50 1807 50 Processing fee under 37 CFR 1.17(q)   1807 50 1807 50 Processing fee under 37 CFR 1.17(q)   1807 50 P  | 1002 340                                | 2002 170 | D       | esign filing fee         | ┦┃¹          | 401        | 330                    | 2401     | 165       | Notice of Appe     | al                |                  |          |
| 1451 1,510   1451 1,510   1451 1,510   Petition to institute a public use proceeding   1451 1,510   1451 1,510   1451 1,510   Petition to revive - unavoidable   1453 1,330   2453   665   Petition to revive - unintentional   1450 1,330   2453   2453   2453   2453   2453   2453   2  | 1003 530                                | 2003 265 | Р       | lant filing fee          | ┦┃℩          | 402        | 330                    | 2402     | 165       | Filing a brief in  | support of an     | appeal           |          |
| SUBTOTAL (1) (\$) 0.00   1452 110   2452 55   Petition to revive - unavoidable   1453 1,330   1450 11330   1   | 1004 770                                | 2004 385 | R       | eissue filing fee        | <b>  </b>  ₁ | 403        | 290                    | 2403     | 145       | Request for ora    | al hearing        |                  |          |
| 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE Fee from Fee Form below Fee Paid  Total Claims  | 1005 160                                | 2005 80  | Р       | rovisional filing fee    | ╗┇           | 451        | 1,510                  | 1451     | 1,510     | Petition to instit | ute a public u    | se proceeding    |          |
| 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE Fee from Fee Paid Total Claims  |   |          | SHE     | TOTAL (1) (\$)           | <u></u> 1    | 452        | 110                    | 2452     | 55        | Petition to reviv  | e - unavoidat     | ole              |          |
| 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE Fee from below Fee Paid Total Claims  |   |          |         |                          | 1            | 453        | 1,330                  | 2453     | 665       | Petition to reviv  | /e - unintentio   | nal              |          |
| Total Claims  | 2. EXTRA C                              | LAIM FE  | EES F   |                          | SUE 1        | 501        | 1.330                  | 2501     |           |                    |                   |                  |          |
| Independent Claims  |   |          | Ex      |                          | aid 1        | 502        | 480                    | 2502     | 240       | •                  | ` ,               |                  |          |
| Claims Multiple Dependent    1460   130   1460   130   Petitions to the Commissioner   1807   50   1807   50   1807   50   Processing fee under 37 CFR 1.17(q)   1806   180   1806   180   1806   180   Submission of Information Disclosure Stmt   1806   180   1806   180   Submission of Information Disclosure Stmt   1808   180  |   | <u> </u> | 20 **=  | × =                      | <b>_</b> ∐ ₁ | 503        | 640                    | 2503     | 320       | Plant issue fee    |                   |                  |          |
| Multiple Dependent  Large Entity   Small Entity   Fee Fee Code (\$)   Fee Description   1202   18   2202   9   Claims in excess of 20   1201   86   2201   43   Independent claims in excess of 3   1203   290   2203   145   Multiple dependent claims over original patent   1204   86   2204   43   ** Reissue independent claims over original patent   1205   18   2205   9   ** Reissue claims in excess of 20   1205   18   2205   9   ** Reissue claims in excess of 20   1206   18   2205   9   ** Reissue claims in excess of 20   1207   18   2205   9   ** Reissue claims in excess of 20   1208   18   2205   9   ** Reissue claims in excess of 20   1209   18   2205   9   ** Reissue claims in excess of 20   1200   18   2205   9   ** Reissue claims in excess of 20   1200   18   2205   9   ** Reissue claims in excess of 20   1200   18   2205   9   ** Reissue claims in excess of 20   1200   18   2205   9   ** Reissue claims in excess of 20   1200   18   2205   9   ** Reissue claims in excess of 20   1200   18   2205   9   ** Reissue claims in excess of 20   1200   18   2205   9   ** Reissue claims in excess of 20   1200   18   2205   9   ** Reissue claims in excess of 20   1200   18   2205   9   ** Reissue claims in excess of 20   1200   18   2205   9   ** Reissue claims in excess of 20   1200   18   2205   9   ** Reissue claims in excess of 20   1200   18   2205   9   ** Reissue claims in excess of 20   1200   18   2205   9   ** Reissue claims in excess of 20   1200   18   2205   9   ** Reissue claims in excess of 20   1200   18   2205   9   Request for expedited examination of a design application   1200   18   2205   9   ** Reduced by Basic Filing Fee Paid   SUBTOTAL (3)   130.00  |   |          | - 3 **= | ×=                       | <b>─</b> ┃ ₁ | 460        | 130                    | 1460     | 130       | Petitions to the   | Commission        | er               |          |
| Fee Fee Code (\$)   |   |          |         | =                        | ┚┃╻          | 807        | 50                     | 1807     | 50        |                    |                   |                  |          |
| Code (\$) Cod |   |          |         | Eco Docarintian          | 1            | 806        | 180                    | 1806     | 180       | Submission of      | Information D     | isclosure Stmt   |          |
| 1201 86 2201 43 Independent claims in excess of 3 1203 290 2203 145 Multiple dependent claim, if not paid 1204 86 2204 43 "Reissue independent claims over original patent over original patent over original patent 1205 18 2205 9 "Reissue claims in excess of 20 and over original patent of a design application of a design application  SUBTOTAL (2) (\$) 0.00  "**or number previously paid, if greater, For Reissues, see above  SUBMITTED BY  Name (Print/Type)  Theodore A. Wood  1809 770 2809 385 Filing a submission after final rejection (37 CFR 1.129(a))  1810 770 2810 385 For each additional invention to be examined (37 CFR 1.129(b))  1801 770 2810 385 For each additional invention to be examined (37 CFR 1.129(b))  1802 900 1802 900 Request for expedited examination of a design application  Other fee (specify) Processing Fee **Reduced by Basic Filing Fee Paid **SUBTOTAL*(3)** (\$) 130.00  **Complete (if applicable))  **Registration No. (Attomey/Agent)  **Telephone (202) 371-2600   | Code (\$)                               | Code (\$ | 5)      |                          | 8            | 021        | 40                     | 8021     | 40        |                    |                   |                  |          |
| 1204 86 2204 43 ** Reissue independent claims over original patent  1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent  SUBTOTAL (2) (\$\$) 0.00  **or number previously paid, if greater; For Reissues, see above  SUBMITTED BY  Name (Print/Type) Theodore A. Wood  Registration No. (Attomey/Agent)  Registration No. (Attomey/Agent)  Registration No. (Attomey/Agent)  Submitted By  Registration No. (Attomey/Agent)  Registration No. (Attomey/Agent)  Submitted By  Registration No. (Attomey/Agent)  Telephone (202) 371-2600   |   |          | -       |                          | 3 1          | 809        | 770                    | 2809     | 385       |                    |                   | I rejection      |          |
| 1204 66 2204 43 Over original patent 1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent 1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent  SUBTOTAL (2) (\$\$) 0.00  **or number previously paid, if greater; For Reissues, see above  SUBMITTED BY  Registration No. (Attomey/Agent)  Registration No. (Attomey/Agent)  Registration No. (Attomey/Agent)  Telephone (202) 371-2600  |   |          |         | ·                        | aid 1        | 810        | 770                    | 2810     | 385       |                    |                   |                  |          |
| 1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent  SUBTOTAL (2) (\$) 0.00  **or number previously paid, if greater; For Reissues, see above  SUBMITTED BY  Name (Print/Type) Theodore A. Wood  1802 900 1802 900 Request for expedited examination of a design application  Other fee (specify) Processing Fee  | 1204 86                                 | 2204     | 43      |                          |              | 1801       | 770                    | 2801     | 385       | •                  | . ,               | <i>*</i>         |          |
| and over original patent  SUBTOTAL (2) (\$) 0.00  **or number previously paid, if greater; For Reissues, see above  SUBMITTED BY  Name (Print/Type)  Theodoxe A. Wood  And over original patent  Other fee (specify) Processing Fee  *Reduced by Basic Filing Fee Paid  SUBTOTAL (3) (\$) 130.00  Registration No. (Attomey/Agent)  Figure 1. (202) 371-2600  | 1205 18                                 | 2205     | 9 *     | •                        |              |            |                        |          |           | •                  |                   | , ,              |          |
| **or number previously paid, if greater; For Reissues, see above  | 1200 10                                 | 2200     | J       |                          |              |            |                        |          |           | of a design app    |                   |                  |          |
| **or number previously paid, if greater; For Reissues, see above SUBMITTED BY  Name (Print/Type) Theodoxe A. Wood Registration No. (Attomey/Agent) S2,374 SUBTOTAL (3) (\$) 130.00  Registration No. (Attomey/Agent) S2,374 Telephone (202) 371-2600  | I                                       | s        | SUBTO   | TAL (2) (\$) 0           | 17171        |            |                        |          |           | ~                  |                   |                  | 130.00   |
| Name (Print/Type) Theodore A. Wood Registration No. (Attorney/Agent) 52,374 Telephone (202) 371-2600  | • |          |         |                          | Redu         | ced by     | Basic I                | Filing F | ee Paid s | SUBTOTAL           | (3) (\$)          | 130.00           |          |
| Name (Print/Type) Theodore A. Wood Registration No. (Attorney/Agent) 52,374 Telephone (202) 371-2600  | SUBMITTED B                             | 3Y       |         |                          |              |            |                        |          |           |                    | (Complete (       | f applicable))   |          |
| The state of the s  |   |          | heada   | A Wood                   |              |            |                        |          |           | 52 374             | Telephone         | (202) 371        | -2600    |
|   | Signature                               |          | 10      |                          |              | <u> IA</u> | morri <del>o</del> y/. | ngent)   |           |                    | Date              | <del></del>      |          |

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



#### I THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Darren NEUMAN et al.

Appl. No.: 10/646,717

Filed: August 25, 2003

For: Method and System for Programmable

Field Statistic for Picture Cyclic Redundancy Check (CRC)

Confirmation No.: 9853

Art Unit: To Be Assigned

Examiner: To Be Assigned

Atty. Docket: 1875.4460001

## Request to Correct Inventorship in a Non-Provisional Patent Application Under 37 C.F.R. § 1.48(a)

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Applicants request that the United States Patent and Trademark Office correct inventorship in the above-captioned non-provisional patent application for which an oath or declaration has already been filed. Specifically Applicants request that the Office change the inventorship in this application from Darren Neuman, Chengfuh Jeffrey Tang, Yao-Hua Steven Tseng, Guang Ting Shih and Wen Huang to <u>Darren Neuman</u>, <u>Chengfuh Jeffrey Tang</u>, Yao-Hua Steven Tseng, Guang Ting Shih, Wen Huang and <u>Charles Thomas Monahan</u>.

This request is accompanied by:

- (1) A statement from each person to be added as an inventor, and/or each person to be deleted as an inventor, stating that the error in inventorship was made without deceptive intent on his or her part;
- (2) An oath or declaration by the actual inventor or inventors as required by 37 C.F.R. § 1.63 or as permitted by 37 C.F.R. §§ 1.42, 1.43 or 1.47;

- (3) The written consent of the assignee of the originally named inventors;
- (4) A Statement Under 37 C.F.R. § 3.73(b) executed by the assignee named in part (3); and
- (5) The processing fee as set forth under 37 C.F.R. § 1.17(i), in the amount of \$130.00.

Applicants hereby authorize the U.S. Patent and Trademark Office to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Theodore A. Wood Attorney for Applicants Registration No. 52,374

Date: March 29, 2004

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

re application of:

Darren NEUMAN et al.

Appl. No.: 10/646,717

Filed: August 25, 2003

For: Method and System for Programmable

Field Statistic for Picture Cyclic Redundancy Check (CRC)

Confirmation No.: 9853

Art Unit: To Be Assigned

Examiner: To Be Assigned

Atty. Docket: 1875.4460001

### Statement Under 37 C.F.R. § 1.48(a)(2) of a Person to be Added or Deleted as an Inventor

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

I am a co-inventor of the invention of one or more claims in the above-captioned non-provisional application for which an oath or declaration under 37 C.F.R. § 1.63 has been filed erroneously not naming me as an inventor. The inventorship error occurred without deceptive intent on my part. I have read and understand 37 C.F.R. § 10.18(b).

Signed:

**Charles Thomas Monahan** 

### SUPPLEMENTAL DECLARATION FOR PATENT APPLICATION

Docket Number: <u>1875.4460001</u>

s a below named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter that is claimed and for which a patent is sought on the invention entitled <u>Method and System for Programmable Field Statistic for Picture Cyclic Redundancy Check (CRC)</u>, the specification of which is attached hereto unless the following box is checked:

was filed on <u>August 25, 2003</u>; as United States Application Number <u>10/646,717</u>.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or (f) or § 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or § 365(a) of any PCT international application, which designated at least one country other than the United States of America, listed below, and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or PCT international application having a filing date before that of the application on which priority is claimed.

| Prior Foreign Applications( | s):        |  | Priority | Claimed |
|-----------------------------|------------|--|----------|---------|
| (Application No.)           | (Country)  | (Day/Month/Year Filed)   | Yes      | ☐ No    |
| (Application No.)           | (Country)  | (Day/Month/Year Filed)   | ☐ Yes    | ☐ No    |
| Send Correspondence to:     | 1100 New   | ESSLER, GOLDSTEIN & FOX P.L.L.C.<br>York Avenue, N.W.<br>on, D.C. 20005-3934 |          |         |
| Direct Telephone Calls to:  | (202) 371- | 2600   |          |         |

:

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

| Full name of first Inventor:  | Darren-NEUMAN  |
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| Full name of second Inventor: | Chengfuh Jeffrey TANG                                |
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| Full name of third Inventor:  | Yao-Hua Steven TSENG                                 |
| Signature of third Inventor:  | Chestote (81 Date: 3/12/04                           |
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| Full name of fourth Inventor: | Guang Ting SHIH  |               |
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| Full name of fifth Inventor: | Wen HUANG                                       |               |
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| Full name of sixth Inventor: | Charles Thomas MONAHAN                                |
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| Signature of sixth Inventor: | The Glow lyl Date: 3/12/04                            |
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Darren NEUMAN et al.

Appl. No.: 10/646,717

Filed: August 25, 2003

For: Method and System for Programmable

Field Statistic for Picture Cyclic Redundancy Check (CRC) Confirmation No.: 9853

Art Unit: To Be Assigned

Examiner: To Be Assigned

Atty. Docket: 1875.4460001

Consent of the Assignee Under 37 C.F.R. § 1.48(a)(5)

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Broadcom Corporation, assignee of the entire right, title and interest of the originally named inventors of the above-captioned application, consents to the change in inventorship from Darren Neuman, Chengfuh Jeffrey Tang, Yao-Hua Steven Tseng, Guang Ting Shih and Wen Huang to <u>Darren Neuman</u>, <u>Chengfuh Jeffrey Tang</u>, <u>Yao-Hua Steven Tseng</u>, <u>Guang Ting Shih</u>, <u>Wen Huang and Charles Thomas Monahan</u>. I have read and understand 37 C.F.R. § 10.18(b).

| For: Broadcom C   | Corporation                              |
|-------------------|--|
| Signature:        | audr-                                    |
| Type or Print nam |  |
| Title:            | Manager, Intellectual Property Portfolio |
| Date: March       | 16,2004                                  |



PTO/SB/96 (08-03)
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| STATEMENT UNDER 37 CFR 3.73(b) Docket No. 1875.4460001  |
|---|
| Applicant/Patent Owner: Darren NEUMAN et al.  |
| Application No./Patent No.: 10/646,717 Filed/Issue Date: August 25, 2003  |
| Entitled: Method and System for Programmable Field Statistic for Picture Cyclic Redundancy Check (CRC)  |
| Broadcom Corporation , a Corporation (Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)   |
| states that it is: 1. \( \sum_{\text{the assignee}} \) the assignee of the entire right, title, and interest; or  |
| 2.  an assignee of less than the entire right, title and interest.  The extent (by percentage) of its ownership interest is% in the patent application patent identified above by virtue of either:   |
| A. [x] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.  |
| OR  |
| B. [ ] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:  |
| 1. From: To:  |
| The document was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.   |
| 2. From:To:   |
| The document was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.   |
| 3. From:To:   |
| The document was recorded in the Patent and Trademark Office at  Reel, Frame, or for which a copy thereof is attached.  |
| [ ] Additional documents in the chain of title are listed on a supplemental sheet.  |
| [ ] Copies of assignments or other documents in the chain of title are attached. [NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302.08] |
| The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee  March 10, 2004  Date  949-926-5958  June 10, 2004  Typed or printed name  |
| Telephone number  Signature  Manager, IP Portfolio  Mitte   |

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

# DO NOT FORWARD TO ASSIGNMENT BRANCH NOT FOR RECORDATION

### SUPPLEMENTAL ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventors: 1) Darren NEUMAN, 2) Chengfuh Jeffrey TANG, 3) Yao-Hua Steven TSENG, 4) Guang Ting SHIH, 5) Wen HUANG and 6) Charles Thomas MONAHAN, the undersigned inventors hereby sell and assign to Broadcom Corporation, a corporation formed under the laws of California (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages, for the United States of America (as defined in 35 U.S.C. § 100) and throughout the world,

(a) in the invention(s) known as Method and System for Programmable Field Statistic for Picture Cyclic Redundancy Check (CRC) for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 1) (also known as United States Application No. 10/646,717, filed August 25, 2003), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including non-provisional applications, continuing (continuation, divisional, or continuation-in-part) applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor, and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

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Appln. No. 10/646,717 Docket No. 1875.4460001

The undersigned inventors hereby represent that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventor(s) hereby grant(s) James D. Bennett, Registration No. 37,550, and David J. Rosmann, Registration No. 43,059, of Broadcom Corporation, 16215 Alton Parkway, Irvine, CA 92618-3616, and Robert Greene Sterne, Esq., Registration No. 28,912; Edward J. Kessler, Esq., Registration No. 25,688; Jorge A. Goldstein, Esq., Registration No. 29,021; David K.S. Cornwell, Esq., Registration No. 31,944; Robert W. Esmond, Esq., Registration No. 32,893; Tracy-Gene G. Durkin, Esq., Registration No. 32,831; Michele A. Cimbala, Esq., Registration No. 33,851; Michael B. Ray, Esq., Registration No. 33,997; Robert E. Sokohl, Esq., Registration No. 36,013; Eric K. Steffe, Esq., Registration No. 36,688; Michael Q. Lee, Esq., Registration No. 35,239; Steven R. Ludwig, Esq., Registration No. 36,203; John M. Covert, Esq., Registration No. 38,759; Linda E. Alcorn, Esq., Registration No. 39,588; Lawrence B. Bugaisky, Esq., Registration No. 35,086; Donald J. Featherstone, Esq., Registration No. 33,876; Robert C. Millonig, Esq., Registration No. 34,395; Michael V. Messinger, Esq., Registration No. 37,575; Judith U. Kim, Esq., Registration No. 40,679; Timothy J. Shea, Jr., Esq., Registration No. 41,306; Patrick E. Garrett, Esq., Registration No. 39,987; all of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

| IN WITNESS WHEREOF, e | executed by the undersigned inventors on the date opposite              |
|-----------------------|---|
| his/her name.         |   |
| Date: 3/12/04         | Signature of Inventor:  1) Darren NEUMAN                                |
| Date: 3/15/04         | Signature of Inventor: Aller Many Morney TANG  2) Chengfuh Jeffrey TANG |
| Date: 3/1/04          | Signature of Inventor: Signature of Inventor: 5) Yeo-Hua Steven TSENG   |
| Date: 3(12/64         | Signature of Inventor:   4) Guang Ting SHIH                             |
| Date: 3/12/04         | Signature of Inventor: 5) Wen HUANG                                     |
| Date: 3/12/04         | Signature of Inventor:  6) Charles Thomas MONAHAN                       |
| 240032_1.DOC          |   |

Page 2 of 2